# CENTRAL REGIONAL LABORATORY

Data Checklist

	Data Se	et AIR 2001 0072 Cheshine Montoung Study
		of-Custody  Cheshine Monitoring Streety  frozganies - metals
9	Analys	sis Request Form(s)*
	Sample	e Tags
	Transn	nittal Report w/signatures of the following:
	•	Analyst (s)
	٠	Data Management Coordinator

\* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Data Management Coordinator



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### REGION 5 CENTRAL REGIONAL LABORATORY

#### 536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

SEP 2 6 2001

Subject:

Review of Region 5 Data for Cheshire Monitoring Study

From:

John V. Morris, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: Cheshire Monitoring Study

CRL data set number: 20010072

Samples analyzed for: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Magmesium, Manganese, Nickel and Selenium

Results are reported for sample designations: 2001AH09S01, 2001AH09D01, 2001AH09S02 and 2001AH09S03

Data Management Coordinator and Date Received
Date Transmitted: SEP, 2 6 2001
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin  Data Management Coordinator  Region 5 Central Regional Laboratory  ML-10C
Received by and Date

Comments:

Sample Number:

2001AH09S01

Station ID: GUIDING HANDS SCHOOL

Sample Batch Number: 20010072

Study: **Cheshire Monitoring Study** 

**Collection Date:** 

10 Sept 01

Filter SN: G6093498

Analysis Date:

21 Sept 01

Element	Concentration	<u>Units</u>
Arsenic	9 U	μg/filter
Barium	95 U	μg/filter
Beryllium	0.6 U	µg/filter
Cadmium	0.6 U	μg/filter
Chromium	3.14 U	μg/filter
Cobalt	1.2 U	μg/filter
Copper	1170	μg/filter
Iron	324	μg/filter
Lead	6 U	µg/filter
Magnesium	343 U	μg/filter
Manganese	10.1	μg/filter
Nickel	5.73 U	μg/filter
Selenium	18 U	μg/filter

Jun Septed

Sample Number:

2001AH09D01

Station ID: GUIDING HANDS SCHOOL

Sample Batch Number: 20010072

10 Sept 01

Study: Cheshire Monitoring Study

Collection Date: Analysis Date:

21 Sept 01

Filter SN: G6093499

Element	Concentration	<u>Units</u>
Arsenic	9 U	μg/filter
Barium	95 U	μg/filter
Beryllium	0.6 U	μg/filter
Cadmium	0.6 U	µg/filter
Chromium	3.14 U	μg/filter
Cobalt	1.2 U	μg/filter
Copper	153	μg/filter
Iron	393	μg/filter
Lead	6 U	µg/filter
Magnesium	343 U	μg/filter
Manganese	13.2	μg/filter
Nickel	5.73 U	µg/filter
Selenium	18 U	μg/filter

JUM 01

Sample Number:

2001AH09S02

Station ID: RVHS

Sample Batch Number: 20010072

10072 Study:

Cheshire Monitoring Study

Collection Date:

10 Sept 01

Filter SN: G6093500

Analysis Date: 21 Sept 01

Element	Concentration	<u>Units</u>
Arsenic	9 U	μg/filter
Barium	95 U	µg/filter
Beryllium	0.6 U	µg/filter
Cadmium	0.6 U	µg/filter
Chromium	3.14 U	µg/filter
Cobalt	1.2 U	µg/filter
Copper	46.4	µg/filter
Iron	272	µg/filter
Lead	6 U	µg/filter
Magnesium	343 U	µg/filter
Manganese	12.0	µg/filter
Nickel	5.73 U	µg/filter
Selenium	18 U	µg/filter

)UM 25 Sept 21

Sample Number:

2001AH09S03

Station ID: ADDAVILLE

Sample Batch Number: 20010072

Study: Cheshire Monitoring Study

Collection Date:

10 Sept 01

Filter SN: G6093501

Analysis Date: 21 Sept 01

Element	Concentration	<u>Units</u>
Arsenic Barium	9 U 95 U	μg/filter μg/filter
Beryllium	0.6 U	μg/filter
Cadmium Chromium	0.6 U 3.14 U	μg/filter μg/filter
Cobalt	1.2 U	µg/filter
Copper Iron	227 188	μg/filter μg/filter
Lead	6 U	μg/filter
Magnesium Manganese	343 U 7.74	μg/filter μg/filter
Nickel	5.73 U	μg/filter
Selenium	18 U	μg/filter

25 Septas

Date: 25 September 2001

Analyst: John V. Morris

Sample Batch Number: 20010071,72&73 Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

#### Narrative for the Analysis of Metals in Air Filters in Batches 20010071,72&73

On 19 September 2001, three batches of air filters, comprising four air filters each, were received at CRL for analysis for metals. The sample descriptions are given in tabular form:

Batch No.	Sample ID	Serial No.	Collection Date	Station ID
20010071	2001AH08S01	G6093496	4 September 2001	GUIDING HANDS SCHOOL
Ox ·	2001AH08D01	G6093497	4 September 2001	GUIDING HANDS SCHOOL
	2001AH08S02	G6093495	4 September 2001	RVHS
18 des	2001AH08S03	G6093494	4 September 2001	ADDAVILLE
20010072	2001AH09S01	G6093498	10 September 2001	GUIDING HANDS SCHOOL
* 3435 * ***	2001AH09D01	G6093499	10 September 2001	GUIDING HANDS SCHOOL
	2001AH09S02	G6093500	10 September 2001	RVHS
- 48 - 12 - 12	2001AH09S03	G6093501	10 September 2001	ADDAVILLE
20010073	2001AH10S01	G6093502	16 September 2001	GUIDING HANDS SCHOOL
	2001AH10D01	G6093503	16 September 2001	GUIDING HANDS SCHOOL
N	2001AH10S02	G6093504	16 September 2001	RVHS
14	2001AH10S03	G6093505	16 September 2001	ADDAVILLE

The analysis was limited to the thirteen metals listed on page 15 of the QAPP.

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The samples were prepared on 20 September 2001. Method Metals\_006, a hot block adaptation of the beaker digestion given in 40 CFR Part 50, Appendix G, was used for the digestion. The digestion log number was 1311. There are no holding times for the air program.

Three filter blanks were prepared, but were taken from a different box than the field samples because all of the one box had been shipped to the field. These blank filters are taken from the next series to be shipped to the field, so this data will be used to generate new limits for blank

Date: 25 September 2001

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log- no Analyst: John V. Morris

Sample Batch Number: 20040071.72&73 Facility Name: Cheshire Monitoring Study

Analyte: ICP Metals

subtracted results. The previous blank data was used for blank subtraction, only applying blank subtraction to the elements barium, chromium, iron, magnesium and nickel. All other elements reported had filter blank results well below the detection limits of the respective analytes. For the five above named elements, the average filter blank from the measurements performed alongside earlier batches from this study and data collected on filter blanks prior to the begin of field collection, was subtracted from the measured results. This was done as described in section 11.2 of the CRL SOP Metals 006 to remove the contribution to the result from the glass fiber filter itself. The reporting limits used for those five elements were derived from ten times the standard deviation of the data used to arrive at the average blank.

The analysis was performed on 21 September 2001 using method Metals 003, using the Perkin-Elmer 3300DV ICP. The yttrium internal standard readings were consistent throughout the run.

For the thirteen metals reported for this study, all instrument check standards (LCM1, LCM2, Hi AQC) were in control, with the exception of the fourth LCM1. That instrument check was low for copper (87.3%) and manganese (89.1%), so the run was halted, the instrument recalibrated, and the sample information file rebuilt to analyze everything from the last valid set of instrument checks. Thus, only the filter blanks and the first three samples of 20010071 are reported from the first calibration. The blanks showed some out-of-control audits, but none were of any consequence to the data. For the initial calibration, arsenic, beryllium, cobalt, copper, magnesium and manganese were more negative than the MDL for the instrument blanks (LCB) straddling the field samples. None of this negative bias, if compensated for, would result in a reportable concentration for arsenic, beryllium or cobalt, or would be more than a percent or two change for the others. These blanks were just high (above MDL) for iron and lead, and for iron, there was no effect. For lead, there was a slight effect, but none of the first three samples (2001AH08S01, 2001AH08D01 and 2001AH08S02, to which the initial calibration applies) were false positives due to this blank. Because the effect on the sample with the least amount of lead (2001AH08S02), when corrected for the high instrument blank, was less than 20%, the result was not given a "J" flag. Subsequent samples were just below reporting limits, where the second calibration had lead within ± MDL. The second calibration had instrument blanks (fifth, sixth and seventh) with positive bias for beryllium, iron and magnesium, and negative once for manganese, and low once for magnesium. These had no effect on the data. The digestion blank (LRB) had several flags, similar to the first calibration under which it was run, but all had no effect on the data.

The first report level check (RLC) was within 80-120% recovery for most of the 13 elements, and in 75-125% for cobalt and iron. Copper, magnesium and manganese were outside these limits, possibly affected by the negative bias seen in the instrument blanks. The second RLC c. The Spect to

Date: 25 September 2001

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Wo Man Analyst: John V. Morris

Sample Batch Number: 20010071.72&73 Facility Name: Cheshire Monitoring Study

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Analyte: ICP Metals

was within 80-120% recovery for all except beryllium, iron and magnesium. Again, the failures match with elements which were out on the blank. The other instrument checks for these elements were all in control, and the data for these two elements were far above the reporting limits, at least before filter blank subtraction. The duplicate filter digestion was within  $\pm 20\%$  for the relative percent difference (RPD) or within  $\pm$  the MDL for the difference.

Three digests were greater than the calibration standard for copper, 2001AH08S01, 2001AH10S01, and its duplicate. The two-fold dilutions were inserted into the run in the second sample information file used after the recalibration, and the copper data is taken from these dilutions.

Again, as with some earlier batches, all the co-located S01 and D01 sample pairs in these three batches have results that are quite different within each pair. Again it appeared that the exposed portion is much darker for the sample S01 than for sample D01, as is consistent with the analytical results.

The printer had some problems early in the run, with some pages lost to jammed paper. After an adjustment was made, the printer problems were relieved. The affected part of the raw data (through sequence number 38) was reprinted from the electronic record the following working day (24 September 2001).

All analytical results files, sample information files and reformat files for ICP analysis can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\jvmorris\20010071 72 73\3300dv\

The narrative, QC summary spreadsheets, sample result calculation spreadsheets and the final sample report for ICP analysis can be found on the R5CRL data server using the following path: h:\r5crl\vol3\metals\jvmorris\20010071 72 73\reports\

#### CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2001 0072 Cheshire Monitoring Study
Suspended Particles

- Chain-of-Custody
- Analysis Request Form(s)\*
- □ Sample Tags
- Transmittal Report w/signatures of the following:
  - Analyst (s)
  - Data Management Coordinator

\* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by:

ata Management Coordinator

Rev. 5/4/00

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



# REGION 5 CENTRAL REGIONAL LABORATORY

#### 536 SOUTH CLARK STREET

# CHICAGO, ILLINOIS 60605

SEP 2 5 2001

Date:

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY** 

From:

Francis A. Awanya, Chemist

Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY** 

CRL data set number: 20010072

Samples analyzed for: Suspended Particles

 $Results \ are \ reported \ for \ sample \ designations: \ \textbf{2001AH09S01, 2001AH09D01, 2001AH09S02,}$ 

and 2001AH09S03.

Data Management Coordinator and Date Received
Date Transmitted:
Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.
Please sign and date this form below and return it with any comments to:
Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C
Received by and Date
Comments:

 Data Set Number:
 20010072
 Parameter:
 Suspended Particles

 Facility Name:
 CHESHIRE MONITORING STUDY

 Study Name:
 CHESHIRE MONITORING STUDY

 Date of Narrative:
 09/24/2001
 Analyst:
 FAA

 Signature:
 FAA

#### ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 19, 2001. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter preparations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters were completed on 9/21/2001.

Both a tear and pinhole size hole were observed on one side of exposed filter Q6280068 (CRL sample I.D number 2001AH09S03). A small tear and pin size hole were also observed in exposed filter Q6280066 (CRL sample I.D number 2001AH09S01). Two large tears were observed along one side of exposed filter Q6280065 (CRL sample I.D number 2001AH09D01). Use those results with caution. Suspended particle results for those samples could be biased low due to loss of particles or filter materials. A probable cause for those tear or scratches are activities related to removal of exposed filters from the individual sampling equipment in the field. Use the data with caution.

Exposed filter Q6280067 (CRL sample I.D number 2001AH09S02) had no tear or holes. The result is acceptable for use.

Chicago, Illinois 60604 Office of Enforcement **CHAIN OF CUSTODY RECORD** Activity Code: 12345 PROJ. NO. PROJECT NAME Cheshire Monitoring Study 01AH09 NO. 90101A SAMPLERS: (Print Name and Sign) OF AIR 2001 0072 Mike Murphy Mike Murphy Mike Murphy CON-GRAB TAINERS OMP STATION LOCATION TIME STA, NO. DATE TAG NUMBERS 5-340059 1 to 2 2 X **GUIDING HANDS SCHOOL** 00:00 DO1 9/10 2 5-340058 1 to 2 00:00 X **GUIDING HANDS SCHOOL** SO1 9/10 2 5-340060 1 to 2 00:00 X RVHS SO2 9/10 2 5-340061 1 to 2 SO3 9/10 00:00 X **ADDAVILLE** Guilling Hands School Serial # 3013 Aug Psig = 19.5 inches of the Serial # 3012, Aug Pstg = 196 indes of No RVHS Serial # 3009, Aug Psig = 19.75 inches of Hic Addaville # 3011, Aug PSTg = 19.7 inchorphe Ship To: Relinquished by: (Signature) Date / Time Received by: (Signature) Miko Murps 9-12-01 1:45 (Signature) Relinquished by: (Signature) Received by: Date / Time ATTN: Airbill Number Relinquished by: (Signature) Date / Time Received for Laboratory by: Date / Time (Signature) UPS#12401 19901 40495530 Chain of Custody Seal Numbers

Project No. Project Name CHESHIRE MUNITURING STURY 90101A
01AH09 AIR 20010072 ANRIVAR DATE: 9/19/201 DUE DATE: 9/26/201 Sampler Vike Murphy Page Cooler ID 1 5-140014 Station Date / Time Grab / Comp **Station Location** No Bottles Tag Numbers Sample Id: 10/09/2001 00:00:00 Grab Com 01AH09D01 DO1 GUIDING HANDS SCHOOL 2 5-340059 1 to 2 Bottle No. 1 **Parameter** Metal analysis by ICP Bottle No. 2 Parameter PM10 Sample Id: Station Date / Time Grab / Comp Station Location No Bottles Tag Numbers 10/09/2001 00:00:00 Ø1AH09SO1 SO1 Grab Com **GUIDING HANDS SCHOOL** 2 5-340058 1 to 2 Bottle No. Parameter 4 Metal analysis by ICP Bottle No. 2 Parameter **PM10** Sample Id: Station Date / Time Grab / Comp Station Location No Bettles Tag Numbers Grab Com 01AH09SO2 SO2 10/09/2001 00:00:00 RVHS 5-340060 1 to 2 2 Bottle No. 1 **Parameter** Metal analysis by ICP 2 **Parameter** Bottle No. PM10 Station Date / Time Grab / Comp Sample Id: Station Location No Bottles Tag Numbers Grab Com 01AH09SO3 SO3 10/09/2001 00:00:00 **ADDAVILLE** 2 5-340061 1 to 2 Bottle No. Parameter Metal analysis by ICP Bottle No. 2 **Parameter** PM10

# ENVIRONMENTAL PROTECTION AGENCY REGION V CENTRAL REGIONAL LABORATORY

# FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 09/10/2001 LAB ARRIVAL DATE: 09/19/2001 DUE DATE: 09/26/2001

DU NUMBER: 90101A DATA SET NUMBER: 20010072 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2001AH09D01	GUIDING HANDS SCHOOL	0.0127			
2	2001AH09S01	GUIDING HANDS SCHOOL	0.0121			-11-11
3	2001AH09S02	RVHS	0.0199			
4	2001AH09S03	ADDAVILLE	0.0118	п		
	F ANALYSIS ALYST		09/21/2001		(2)	

Reviewed by:	6.8	Date:	125,2001
	CONTRACTOR OF THE PROPERTY OF	11-12-12-13 TO 1	

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page 1 of 1

# ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 200100712 Facility: CHESHIRE MONTORING STUDY

Package Overview:	YES	NO
Raw Data Package Complete?	1	
Results Reported Correctly?		
Special Requests Done?	N/A	
Calculations Checked?	V	
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		THE RESERVE OF THE PERSON OF T
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?		
Calibration Verification Checked?	N/A	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	NIA	
Matrix QC Checked?	NIA	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	N/A	
LCS (if applicable) Checked?	NIA	
QCS (if applicable) Checked?	NIA	
Final Check		
Technical Review Done?	V	
Narrative Complete?	V	
Analyst: Peer Reviewer: E.S	The state of the s	
Date: $9/21/2001$ Date: $9/25/2001$		
Comments Attached? (Y/N)		

 Data Set Number:
 20010072
 Parameter:
 Suspended Particles

 Facility Name:
 CHESHIRE MONITORING STUDY

 Study Name:
 CHESHIRE MONITORING STUDY

 Date of Narrative:
 09/24/2001
 Analyst:
 FAA

 Signature:
 FAA

#### ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on September 19, 2001. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter preparations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters were completed on 9/21/2001.

Both a tear and pinhole size hole were observed on one side of exposed filter Q6280068 (CRL sample I.D number 2001AH09S03). A small tear and pin size hole were also observed in exposed filter Q6280066 (CRL sample I.D number 2001AH09S01). Two large tears were observed along one side of exposed filter Q6280065 (CRL sample I.D number 2001AH09D01). Use those results with caution. Suspended particle results for those samples could be biased low due to loss of particles or filter materials. A probable cause for those tear or scratches are activities related to removal of exposed filters from the individual sampling equipment in the field. Use the data with caution.

Exposed filter Q6280067 (CRL sample I.D number 2001AH09S02) had no tear or holes. The result is acceptable for use.

# CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers: 20010071, 20010072, 20010073

Date of Analysis 9/21/2001

Analyst:

FAA

#### **BALANCE VERIFICATION:**

Sandard Weights	Balanced weight	Differences		
Actual (g)	Balanced (g)	(g)		
		Limit +/-0.0005 g		
Data set Number 2001	0071,72,73			
1.0000	0.9998	0.0002		
1.0000	0.9999	0.0001		
2.0000	2.0000	0.0000		
2.0000	1.9998	0.0002		
5.0000	4.9999	0.0001		
5.0000	4.9998	0.0002		

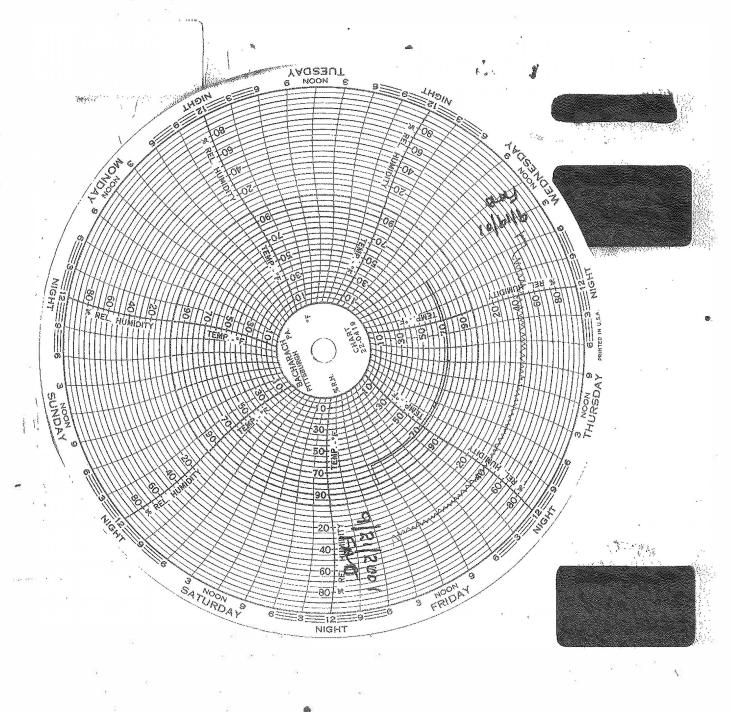
# QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Sampling	ANALYST	Exposed
Number	I.D Number	Date		weight (g)
Data set Number 20010	071,72,73			
Q6280072	2001AH10S03	09/16/01	Analyst 1	4.3982
Q6280072	2001AH10S03	09/16/01	Analyst 2	4.3986
Differences (Limit +/- 5 r	ng)			-0.0004
Q6280071	2001AH10S02	09/16/01	Analyst 1	4.3979
Q6280071	2001AH10S02	09/16/01	Analyst 2	4.3982
Differences (Limit +/- 5 r	ກg)			-0.0003
G1006688	2001AH08S02	09/04/01	Analyst 1	4.4428
G1006688	2001AH08S02	09/04/01	Analyst 2	4.4427
Differences (Limit +/- 5 r	ng)			0.0001

# CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
			And the second		1 1 1 1 1						
			THE STATE OF THE S								
Data set No	umber 20010071										
Q6280063	2001AH08D01	09/04/01	Guiding Hands School	3013	19.50		0.00	4.3705	4.3823	0.0118	ERR
Q6280064	2001AH08S01	09/04/01	Guiding Hands School	3012	20.25		0.00	4.3691	4.3805	0.0114	ERR
G1006688	2001AH08S02	09/04/01	RVHS	3009	15.65		0.00	4.4083	4.4428	0.0199	ERR
		09/04/01	Addaville	3011	19.90		0.00	4.3919	4.4234	0.0315	ERR
Data set N	umber 20010072										
Q6280065	2001AH09D01	09/10/01	Guiding Hands School	3013	19.50		0.00	4.3824	4.3951	0.0127	ERR
		09/10/01	Guiding Hands School	3012	19.60		0.00	4.3774	4.3895	0.0121	ERR
Q6280067	2001AH09S02	09/10/01	RVHS	3009	19.75		0.00	4.3312	4.3433	0.0199	ERR
Q6280068	2001AH09S03	09/10/01	Addaville	3011	19.70		0.00	4.3858	4.3976	0.0118	ERR
Data set N	umber 20010073										
Q6280070	2001AH10D01	09/16/01	Guiding Hands School	3013	20.00		0.00	4.3585	4.3733	0.0148	ERR
Q6280069		09/16/01	Guiding Hands School		18.95		0.00	4.3932	4.4086	0.0154	ERR
Q6280071	2001AH10S02	09/16/01	RVHS	3009	19.90		0.00	4.3773	4.3979	0.0199	ERR
	2001AH10S03	09/16/01	Addaville	3011	19.70		0.00	4.4025	4.3982	-0.0043	ERR

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	Q6280071	4,3773		4.3979	4 39 8 2	teer at foll
	a 62800 70	4.3585		4.3733	4-3735	(smoll)
4	Q6280069	4.3932		4.4086	haliannas eta halian 1871/2017 eta Para Habaria (2000-1211)	regard purha
1	Q 62 300 68	4.3858		4.3976	en e	ononesde
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Parameters PM10

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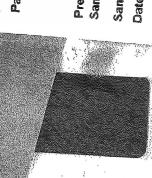
Preservative None
Sample ID 01AH09DO1

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US EPA Region 5 Field Sample

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US EPA Region 5 Field Sample Parameters PM10



SITE PUHS # 3009

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Date

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METILER AG285	0.20000	0.2000
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	50.0000	50.0003
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9 12 2001 FRA	1.0000	0.09000
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